

**IN THE TITLE**

Please amend the title as follows:

~~A PHOTO RADIATION INTENSITY SENSOR AND CALIBRATION METHOD~~  
THEREOF

**IN THE SPECIFICATION**

Please amend the specification as follows:

Please add the following paragraph beginning at page 6, line 25 as follows:

In Figure 3, a typical output signal from a sensor according to the invention having a single sensing element and a diffusive compound positioned between an aperture of the sensor and the sensing element is shown.

On page 7, line 5, please amend the paragraph as follows:

The sensor 1 further includes an array of sensing elements 5 distributed within said housing 2. A shading element 6 at least partly block light from impinging directly on one of two sensing elements within said array of sensing elements 5 separated by said shading element. In the shown example, the sensing elements 5 are positioned on opposite sides of the shading element 6 formed by a printed circuit board 7 carrying the sensing elements and other electronic components used in the sensor. In the embodiment shown in Figure 7, the printed circuit board 7 and two flanges 8, 8' 9, vertically extending from said printed circuit board 7, form shading elements. A more detailed description with reference to Figure 7a-c will be disclosed later in the application.